BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Hegdenagara and surrounding Areas i
Ward No.06

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Hegdenagar								
	3rd cross		2	183.00	1.20	1.00	439.20		
	6th cross		2	183.00	1.20	1.05	461.16		
	7th cross		2	183.00	1.20	1.00	439.20		
	8th cross		2	183.00	1.20	1.00	439.20		
	9th cross		1	90.00	1.10	1.00	99.00		
	Connecting road		2	94.00	1.20	1.00	225.60		
	cross road desilt		4	60.00	0.60	0.35	50.40		
	For RCC Culvert		10	6.50	1.80	1.10	128.70		
							2282.46	215.28	491367.99
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Hegdenagar								
	3rd cross		2	183.00	1.20	0.15	65.88		
	6th cross		2	183.00	1.20	0.15	65.88		
	7th cross		2	183.00	1.20	0.15	65.88		
	8th cross		2	183.00	1.20	0.15	65.88		
	9th cross		1	90.00	1.10	0.15	14.85		
	Connecting road		2	94.00	1.20	0.15	33.84		
	For RCC Culvert		10	6.50	1.80	0.20	23.40		
							335.61	5421.90	1819643.86
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Hegdenagar								
	Bottom slab								
	3rd cross		2	183.00	1.10	0.15	60.39		
	6th cross		2	183.00	1.10	0.15	60.39		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	7th cross		2	183.00	1.10	0.15	60.39		
	8th cross		2	183.00	1.10	0.15	60.39		
	9th cross		1	90.00	0.90	0.15	12.15		
	Connecting road		2	94.00	1.10	0.15	31.02		
	Side walls								
	3rd cross		4	183.00	0.15	0.70	76.86		
	6th cross		4	183.00	0.15	0.70	76.86		
	7th cross		4	183.00	0.15	0.70	76.86		
	8th cross		4	183.00	0.15	0.70	76.86		
	9th cross		2	90.00	0.15	0.70	18.90		
	Connecting road		4	94.00	0.15	0.70	39.48		
							650.55		
	For RCC Culvert								
	Raft		10	6.50	1.50	0.25	24.38		
	side walls		20	6.50	0.25	0.60	19.50		
							43.88		
					Net Qty.		**694.43**	7070.20	**4909723.64**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 70kg / cum	Tonne		650.55	0.070	--	45.54		
	Considering steel For Culvert @ 110 kg / cum			43.88	0.110	--	4.83		
							50.36	73992.24	**3726600.67**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
5	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Hegdenagar								
	3rd cross		2	183.00	0.90	--	329.40		
	6th cross		2	183.00	0.90	--	329.40		
	7th cross		2	183.00	0.90	--	329.40		
	8th cross		2	183.00	0.90	--	329.40		
	9th cross		1	90.00	0.75	--	67.50		
	Connecting road		2	60.00	0.90	--	108.00		
							1493.10		
	Deduct 10% slabs for BS Slab						149.31		
	cross road missing slabs		4	80.00	0.90	--	288.00		
							1631.79	2337.00	**3813493.23**
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
	For Drain	Sqm							
	Hegdenagar								
	10% slabs for BS Slab						149.31		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							149.31	966.72	**144340.96**
	Basic Rate Rs.=	912.00							
	Add 6% A.W Rs. =	54.72							
	Total Rate Rs. =	**966.72**							
7	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.26, I.No.5.17 of PW,P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Hegdenagar								
	10% slabs for BS Slab						149.31		
							149.31	950.82	**141966.93**
	Basic Rate Rs.=	897.00							
	Add 6% A.W Rs. =	53.82							
	Total Rate Rs. =	**950.82**							
8	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	10	6.50	1.50	--	**97.50**	5418.00	**528255.00**
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	Hegdenagar								
	3rd cross		2	183.00	0.20	0.15	10.98		
	6th cross		2	183.00	0.20	0.15	10.98		
	7th cross		2	183.00	0.20	0.15	10.98		
	8th cross		2	183.00	0.20	0.15	10.98		
	Connecting road		2	94.00	0.20	0.15	5.64		
							49.56	5747.32	**284837.18**
	Basic Rate Rs.=	5422.00							
	Add 6% A.W Rs. =	325.32							
	Total Rate Rs. =	**5747.32**							
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	Hegdenagar								
	3rd cross		2	183.00			366.00		
	6th cross		2	183.00			366.00		
	7th cross		2	183.00			366.00		
	8th cross		2	183.00			366.00		
	Connecting road		2	94.00			188.00		
							1652.00		
							3671.00	432.48	**1587634.08**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
11	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Hegdenagar								
	3rd cross		2	183.00	0.40		146.40		
	6th cross		2	183.00	0.40		146.40		
	7th cross		2	183.00	0.40		146.40		
	8th cross		2	183.00	0.40		146.40		
	Connecting road		2	94.00	0.40		75.20		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							660.80	84.80	56035.84
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
							Sub Total 1 Rs.		17503899.38
	Add GST @ 12%								2100467.93
	DPR & PMC Charges including GST								395000.00
							Sub Total 2 Rs.		19999367.30
	Miscellaneous & Rounding off								632.70
								Total Rs.	20000000.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Project Division Yelahanka	Project Division Yelahanka	Project Division Yelahanka
BBMP	BBMP	BBMP

Approved by Major Works Committee
vide subject No: 22/2019-20 Dt: 07/02/2020

Administrative Approval
Accorded For Rs. 200.00 Lakhs
Head of A/C... P-1878
CER NO :... 43 ... Dt: 18/02/2020

E.E. (Project) 18/2

Technical Sanction
Accorded For Rs 200.00 Lacs only
Head of A/C... P.1878
CER NO :... 171 ... Dt: 06.11.2019

TA

CE (YNK)